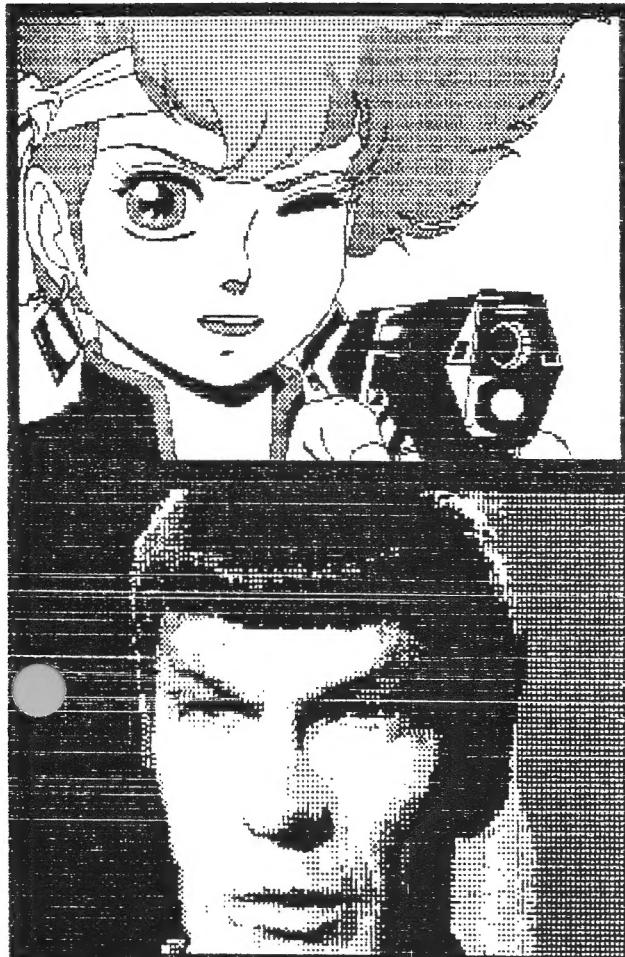


THE RAMTOP

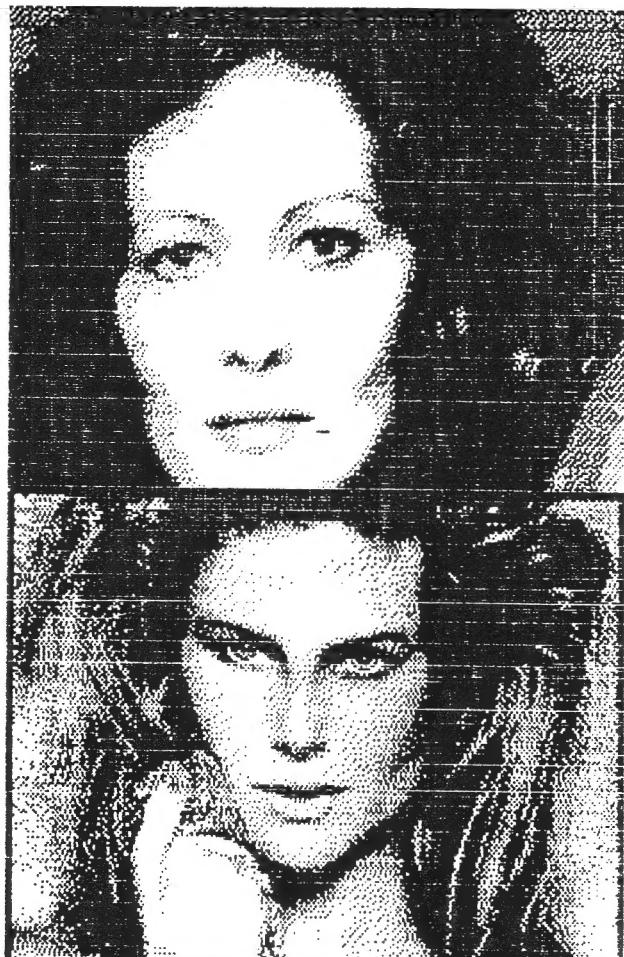
APRIL

1987

PUBLISHED BY THE
GREATER CLEVELAND SINCLAIR USERS GROUP



APRIL
1987



WEST SIDE GROUP MEETS AT LAKEWOOD PUBLIC LIBRARY
15425 DETROIT AVE. LAKEWOOD OHIO 7:00 P.M.
EVERY THIRD FRIDAY EACH MONTH
CONTACT: DICK SIEG (216) 433-4387

EAST SIDE GROUP MEETS AT THE EUCLID SQUARE MALL
PLEASE NOTE THAT THE MAY EAST SIDE
MEETING WILL BE AT 7:30, APRIL 24th!!!
CONTACT: MAX SCHOENFELD (216) 371-1096

Please Note!

A short note to our friends from other newsletters and magazines. You are welcome to use any of our material, news, adds, or programs if YOU: (1) Tell where it came from (RAMTOP Cleveland, Ohio) and (2) The author's name that wrote the article. We would appreciate it if you would send us a copy of the newsletter that it appeared in! Unless otherwise notified we will do the same.

THANK YOU FOR YOUR INTEREST IN OUR NEWSLETTER!

THE TSU-BBS IS ALIVE
SYSOP: Chris Raynak PHONE: 216-327-1099 PARAMETERS: 7/1/0

***** TIMEX/SINCLAIR NEWS & RESOURCES

news/rumors
hardware software literature

APRIL 1987 by Andy Kosiorek

AMSTRAD TAKES ON BIG BLUE

AMSTRAD IN THE USA:

AMSTRAD INTERNATIONAL (USA) INC. set up shop in Chicago in January 1986. The first computer related product that they have marketed here was the PCW 8256 Word Processor - thru the Sears retail stores and other vendors. The machine comes with its own monitor, one 3" disk drive, and a dot matrix printer. Sears currently has this package on sale for \$399.00. Sears also has the 3" disks, which will work in the Timex of Portugal (Zebra) disk FDD system.

THE PC1512

Last autumn, in the UK, Amstrad introduced its PC Clone, the model PC1512. It has received favorable reviews in the Oct. '86 issue of PCW mag. and the Feb. '87 issue of BYTE.

Amstrad is now marketing the IBM compatible computer thru a distributor in Texas, VIDCO Inc. A local retail network now is being assembled. There should be several outlets, with the product in the Cleveland area shortly.

Amstrad has a full page add in the April issue of Family Computing. You can obtain literature and even purchase the machine mail order from Vidco. The phone no. is 1-800-237-3118.

The prices I was quoted over the phone are higher than what the machine is selling for in the UK, but once a dealer network is set up, competition may trim the amounts to a reasonable level. I hope to have a dealer demo a machine at a meeting later this year. There will probably also be one on display at the Indy ComputerFest

At present, Amstrad has no plans to market the Sinclair Spectrum in the US. If the Speccy Plus 3, with its 3" disk drive sells well in the UK, they may import it here, since Sears is already selling the 3" disks.

Technical details are described very well in the Byte Feb. issue, and Amstrads brochure.

TIMEX/SINCLAIR & AMSTRAD NEWS

news/rumors
hardware software literature

April 1987 by Andy Kosiorek

Amstrad continued--

Basically the low end model comes with 512K, one 5 1/4" drive, and monochrome monitor. The options then take you upward to twin drives, or hard disk, and color monitors. You MUST buy the monitor, as the computers power supply is built into it. Byte described the machine, as the lowest price quality clone available.

Standard with the machine is a mouse, real time clock, serial and parallel ports, MSDOS 3.2, DOS Plus, & GEM graphics.

THE INDIANAPOLIS COMPUTERFEST

MAY 2 & 3RD.

HOLIDAY INN - NORTH
1-317-872-9790 for reservations.

Events:

Approximately 24 seminars.

Swap meet/flea market

Many vendors and exhibits.

So far the following have said they will be there:

At Computer Response
Acme Electric Robot Co.

(AERCO)

Brice Road Pharmacy

Computer Shopper Mag.

CTM Magazine

Time Designs Magazine

Curry Computer

Quantum Computing

RMG Enterprises

Knighted Computers

Sharp's

Thomas Woods

Variety Sales

Zebra Systems

E. A. Brown

Variety Sales

Syncware News

Byte Power

Kurt Casby

John Olliger

Market Enterprises

A & J Microdrives

Ed Gray

Lemke Software

Foote Software

Russell Electronics

JRC Software

Mountaineer Software

Hal-Tronix

Russell Electronics

and at least six User Groups will have displays, ATSU, SLUG, SMUG, ISTUG, CATS, and of course the Greater Cleveland Sinclair Users Group.

If you can make it, this may be your last opportunity, as the Fest in '88 may be on the west coast. See you there..



```

1005 REM **** RLE DECODER U
1006 REM WITH RLE COMPILED BASIC
1007 REM ***** FROM TIME DESIGNS 2-87
1008 REM CLEAR 09999: PRINT #4: LOAD
1009 REM "rle.decode" CODE 30000
1010 REM LOAD
1100 CLS : GO SUB 8000
1110 CLS : RANDOMIZE USR 30000
1120 REM SAVE
1200 INPUT #0:AT 0,0;"FILE NAME=";
1210 LINE #: GO SUB 8500: CLS
1220 RANDOMIZE USR 31265
1230 GO TO 1000
1240 PRINT INVERSE 1;AT 4,4;"DO
YOU WANT TO:"
1250 IF G<1 OR G>3 THEN GO TO 800
1260 IF G=1 THEN CLS : PRINT AT
1270 10,8;"PLAY YOUR RLE TAPE": LOAD
1280 CODE 40000: RETURN
1290 IF G=2 THEN INPUT "WHAT IS
THE FILE NAME? ";N$;"FROM DRIVE
#?";D: PRINT #4: LOAD N$CODE 4
1300 PRINT D: RETURN
1310 IF G=3 THEN INPUT "WHICH DR
IVE #?";D: PRINT #4: CAT "",; P
RINT D: PAUSE 0: CLS
1320 GO TO 8000
1330 PRINT INVERSE 1;AT 4,4;"DO
YOU WANT TO:"
1340 PRINT ("TAB 4;"1, SAVE TA
PE"/";TAB 4;"2. SAVE TO DISK"/";
TAB 4;"3. LOAD ANOTHER RLE FILE"/";
TAB 4;"4. RETURN": INPUT G:
1350 IF G<1 OR G>4 THEN GO TO 8500
1360 IF G=1 THEN CLS : PRINT AT
10,0;"PREPARE TO SAVE YOUR RLE F
ILE": SAVE N$CODE 50000,6912:
1370 RETURN
1380 IF G=2 THEN INPUT "TO WHAT
DRIVE #?";D: PRINT #4: SAVE N$C
ODE 6000,6912: PRINT D: RETURN
1390 IF G=3 THEN GO TO 1025
1400 IF G=4 THEN RETURN
1410 GO TO 8500
1420 PRINT #4: SAVE "RLE" LINE 1
1430 PRINT #4: SAVE "rle.decode"
1440 CODE 30000,1970

```

From Tom Simon

IF YOU ARE A SUBSCRIBER TO
COMPUSERVE, YOU CAN FIND THESE
FILES BY TYPING IN GO MHA, GO
PIGS, GO TEN, GO MAPS, GO ARTSIGN
OR GO DBPIX. YOU WILL HAVE
LARGE SELECTION TO CHOOSE FROM.
IF YOU WANT TO HAVE YOUR OWN
PICTURES DIGITIZED, COMPUSERVE
WILL DO IT FOR YOU, FOR A FEE OF
\$100.

IF YOU ARE USING A 2066, ONCE YOU HAVE DOWNLOADED YOUR RLE FILE YOU SHOULD SAVE IT TO TAPE AS BASIC SO YOU CAN TRANSFER IT TO ANOTHER BOARD OR MEDIUM. DOING SO WILL PERMIT VARS ON THE 2066 TO BE SET CORRECTLY. THE RLE FILE MUST BE SAVED AS CODE TO BE READ BY THE DECODER. HOWEVER IN THIS FORM VARS IS NOT SET CORRECTLY AND THE FILE CANNOT BE LOADED INTO THE COMPUTER AND COPIED WITHOUT SOME FANCY FOOTWORK TO RESET VARS. IT IS BEST TO MAKE A NOTE OF HOW MANY BYTES THE FILE IS BEFORE LEAVING MTERM II. ALL RLE FILES USE WHITE INK ON BLACK PAPER SO THAT TO COPY THEM TO A PRINTER THE ATTRIBUTES MUST BE INVERTED. THE LEMKE PROGRAM FROM TIME DESIGNS DOES THIS BY LOOKING FOR AN INPUT OF I, INPUT C AND YOU CAN COPY THE SCREEN TO THE 2048 CURRENT TERM. I WILL TAKE YOU TO THE MENU. I HAVE MODIFIED THE MENU TO WORK WITH MY DISK DRIVE WHICH I USE. THE PRINT #4: COMMAND TO ACCESS IT. THE FOLLOWING LISTING IS TO REPLACE THE UNCOMPRESSED BASIC OF THE LEMKE PROGRAM. YOU WILL ADD THIS TO THE END OF THE PROGRAM. TO THE FEBRUARY ISSUE OF THE PROGRAMMING LANGUAGE. STORE THESE LINES, IF YOU HAVE SYSTEMS COMMANDS THAT ARE USED ON THE RLE FILE, YOU WILL NEED TO INCLUDE THEM. YOU WILL ALSO NEED TO INCLUDE THE COMMANDS FOR A RLE FILE THAT HAVE BEEN USED ON THE RLE FILE.

```

100 REMark ***** RLE DECODER *****
110 REMark Enter picture "device_filename"
120 DEFINE PROCedure picture (file$)
130 LOCal col,lin,wid
140 MODE 4:WINDOW#1,512,256,0,0:PAPER#1,7:INK#1,0:CLS#1
150 WINDOW#1,411,184,53,11:PAPER#1,0:CLS#1
160 WINDOW#1,411,194,53,12:PAPER#1,0:INK#1,7:CLS#1:SCALE#1,193,-1,-1
170 WINDOW#0,409,30,53,226:PAPER#0,7:INK#0,0:CLS#0
180 OPEN #4,file$
190 IF lookfor("G") = 0 THEN RETurn
200 IF lookfor("H") = 0 THEN RETurn
210 col = 0: lin = 192
220 REPeat get_col_wid
230 IF EOF(#4) THEN EXIT get_col_wid
240 col = col + CODE (INKEY$(#4,500)) -32
250 IF EOF(#4) THEN EXIT get_col_wid
260 wid = CODE (INKEY$(#4,500)) -32
270 IF col + wid < 256 AND wid > 0
280 LINE col,lin TO col + wid,lin: col = col + wid
290 ELSE IF col + wid > 255 AND col < 255
300 LINE col,lin TO 255,lin
310 lin = lin -1
320 col = (col + wid) MOD 256
330 IF col > 0 THEN LINE 0,lin TO col,lin
340 ELSE IF col + wid > 255 AND col > 254
350 lin = lin -1
360 col = (col + wid) MOD 256
370 IF col > 0 THEN LINE 0,lin TO col,lin
380 END IF : END IF : END IF
390 END REPeat get_col_wid
400 CLOSE #4
410 END DEFINE picture
420 DEFINE FuNction lookfor(a$)
430 REPeat loop
440 IF EOF(#4) THEN RETurn 0
450 IF INKEY$(#4,30) = a$ THEN RETurn 1
460 END REPeat loop
470 END DEFINE lookfor

```

NOTES

ARE YOU LOOKING FOR A PRINTER OR SOME OTHER EQUIPMENT BUT DON'T HAVE ENOUGH MONEY. IF YOU ARE DOWN IN COLUMBUS STOP BY VIDEO EXPRESS WHICH IS ALSO KNOWN AS ELECTRONIC ONE. THEY HAVE A LARGE SUPPLY OF USED AND RECONDITIONED EQUIPMENT. THEY ARE LOCATED ON COUNTRY CLUB DRIVE WHICH IS OFF MAIN ST., OFF 270 EAST.

INDIANAPOLIS NEWS..... DOUG GILLISPIE WILL BE DRIVING HIS VAN TO INDIANAPOLIS AND WILL TAKE RIDERS THERE. CALL DOUG AT 684-6636. TOBY RADLOFF ALSO WILL DRIVE OR SHARE A RIDE TO INDIANAPOLIS. IF YOU ARE INTERESTED CONTACT THEM.

A PART-TIME FIDO BBS WILL BE ON LINE 24 HOURS ON THE WEEKENDS. IT IS AIMED AT AMATEUR RADIO OPERATORS. CALL 216-367-6984 EITHER 300 OR 1200 BAUD.

TO THOSE WHO HAVEN'T HEARD OUR GROUP ORDER OF OLS FELL THROUGH. IF YOU HAD PLANNED TO ORDER ONE THROUGH THE GROUP, YOU ARE NOW ON YOUR OWN.

SO FAR THE LIST OF NON RUNNING PROGRAMS HAS BEEN QUITE SMALL. SURELY THERE ARE PEOPLE OUT THERE IN OUR GROUP AND OTHERS WHO HAVE HAD SOME EXPERIENCES WITH PROGRAMS THAT WOULD NOT LOAD. ON A SPECTRUM MODIFIED 2066? SEND A POST CARD TO THOMAS SIMON, 615 SCHOOL AVE., CUYAHOGA FALLS, OHIO 44221. WITH PROGRAMS YOU MAY HAVE PURCHASED OR KNOW OF THAT WILL NOT RUN ON OUR SYSTEM. OK?

THOSE WITH OLIGER SYSTEMS MAY HAVE RECEIVED A MAILER FROM BILL JONES CONCERNING HIS WORD PROCESSOR SMART TEXT. IT IS SUPPOSED TO HAVE MAIL MERGE FUNCTIONS AND TO BE COMPATIBLE WITH MOST PRINTERS. HE IS OFFERING IT FOR \$33. IS THERE ANYONE OUT THERE WHO CAN WRITE A REVIEW OF THIS SOFTWARE FOR US? FOR FURTHER DETAILS WRITE BILL JONES, GULF MICRO, 1317 STRATFORD AVE., PANAMA CITY, FLORIDA.

QoLumn

by Gabe Schaffer

Hello. This time there is a program from Gary Sprang (with modifications by yours truly) and some computer humor. I can always use ideas for a column, so if you want an explanation of a command or function, please write!

Gabe Schaffer
2599 Saybrook Rd.
Univ. Hts., OH 44118

COMPUTER HUMOR

I got these from (I think) the Jan. 1987 issue of Office Automation, and they got it from Open Systems. Here are some ways to convey feelings in the form of text:

:> - I'm happy
 :(< - I'm sad
 :S - I have mixed feelings
 8:) - I'm wide awake
 :O - I'm surprised
 <:O - I'm VERY surprised
 :P - (tongue stuck out)
 :9 - sounds tasty
 :V - I'm talking

...and for advanced users:

:-) - (fiendish grin)
 :-(< - (determined look)

NOTE: If you don't understand them, try rotating the page 90° clockwise. If that still doesn't help, then the printer can't reproduce the characters correctly.

PROGRAM

Here is a SuperBASIC listing of a clock program for the QL. It will only work in TV mode. The program draws a clock face and moves the hands according to the QL's internal clock, which unfortunately is not very accurate because the QL doesn't have quartz to regulate the clock. The variables for the hands are:

Hand	Updated Variable	'Old' Variable
Second	x,y	ox,oy
Minute	xm,ym	oxm,oym
Hour	xh,yh	oxh,oyh

You can reset the clock with the `WL` commands `SDATE` (set date and time) and `ADATE` (adjust date and time) when the clock loses the correct time.

I modified the program to chime hourly (like a grandfather clock), to indicate either AM or PM, and to reposition the clock face on the screen.

Gary's program is first and my modified program second:

```

100 REMark graphic clock for Sinclair QL Superbasic
110 REMark by G. M. Sprang 3/5/87
120 PAPER 0:CLS:CLS#0:p2=PI*PI:SCALE 256,0,0
130 RESTORE
140 INK 7:CIRCLE 120,100,100
150 OVER 1
160 FOR n=1 TO 12:READ u,i:CURSOR u,i:PRINT n
170 DATA 156,42,192,60,210,90,200,120,165,143,116,152
180 DATA 70,144,33,121,21,90,36,61,67,43,110,35
190 OVER 0
200 ox=120:oy=100:oxm=120:oym=100:oxh=120:oyh=100
210 z$=DATE$:h$=z$(1 TO 11):AT 1,0:INK 7:PRINT h$
220 x$=DATE$:y$=x$(19 TO ):n=y$
230 x$=DATE$:IF x$(19 TO 20)=y$:GO TO 230
240 x=118+85*(SIN(n/9.5)):y=100+85*(COS(n/9.5))
250 INK 0:LINE 120,100 TO ox,oy:INK 7:LINE 120,100 TO x,y
260 I$=x$(16 TO 17):n=i$
270 xm=118+65*(SIN(n/9.5)):ym=100+65*(COS(n/9.5))
280 INK 0:LINE 120,100 TO oxm,oym:INK 3:LINE 120,100 TO xm,y
=
290 y$=x$(13 TO 14):n=((y$-12)*5)+(1$/12)
300 xh=118+45*(SIN(n/9.5)):yh=100+45*(COS(n/9.5))
310 INK 0:LINE 120,100 TO oxh,oyh:INK 5:LINE 120,100 TO xh,y
h
320 INK 7:LINE 120,100 TO x,y
330 ox=x:oy=y:oxm=xm:oym=ym:oxh=xh:oyh=yh
340 GO TO 220

```

In the following listing of the modified version, new or altered lines are indicated with an arrow:

```

100 REMark graphic clock for Sinclair QL SuperBASIC
►120 PAPER 0:CLS:CLS#0:SCALE 256,0,0
130 RESTORE
►140 INK 7:CIRCLE 120,115,105
150 OVER 1
►160 FOR n=1 TO 12:READ u,i:CURSOR u,i-8:PRINT n
170 DATA 156,42,192,60,210,90,200,120,165,143,116,152
180 DATA 70,144,33,121,21,90,36,61,67,43,110,35
190 OVER 0
►200 ox=120:oy=100:oxm=120:oym=100:oxh=120:oyh=100:bell=0
►210 z$=DATE$:h$=z$(1 TO 11):AT 1,0:INK 7:PRINT h$!!:IF z$(13
  TO 14)>11:PRINT"PM":ELSE PRINT"AM"
220 x$=DATE$:y$=x$(19 TO ):n=y$
►225 IF x$(16 TO )='00:00':bell=x$(13 TO 14):IF bell>12:bell=
  bell-12:ELSE IF bell=0:bell=12
230 x$=DATE$:IF x$(19 TO 20)=y$:GO TO 230
240 x=118+85*(SIN(n/9.5)):y=100+85*(COS(n/9.5))
►250 INK 0:LINE 120,110 TO ox,oy+10:INK 7:LINE 120,110 TO x,y
  +10
  Continued on PAGE 7

```

April Editorial

Hello again, Sinclair fans! I hope you are all doing great and computing at full blast! I for one have not been at the keys a lot due to a heavy work load. I also just got a new VCR and have been having a good time with that. Speaking of VIDEO, I am still working on getting the second part of the article about DIGITIZING a video. I bought a digital VCR to get a good pause for this reason. The article said that you need the frame to be steady for about 5 seconds.

The BIG thing this month is the INDY COMPUTER FEST!!! I WILL BE THERE! If any of you need a ride, see the article by Doug Gillespie in this issue. I will also have room for one or two people with luggage and equipment. I asked a truck driver about the time of travel and he felt that about 6 1/2 hours should be allowed. If you want a ride from me, call me at 216-661-4105 after 5pm.

I need to toss in a few lines about sending articles. I NEED ARTICLES! I hardly ever get an article on the 1000 and I KNOW that a lot of you have them! I will gladly put your article in the RAMTOP! You may send it in almost any form as long as I can cut it and paste it on an 8 X 11 inch sheet. (with 3/4" borders) I prefer articles on cassette using Tasword, but know this is not always possible or convenient.

+++++

PLEASE NOTE THAT THE MAY EAST SIDE MEETING WILL BE ON THE LAST FRIDAY OF APRIL!!! (APRIL 24th) PLEASE TRY TO BE THERE IF YOU PLAN TO GO TO THE INDY FEST! I'm sure that last minute items about the fest will be brought up.

+++++

I think that it is still somewhat of a mystery about the banquet Friday night since plans have changed several times. I for one would like to go, but I'm still not sure what is going on about the dinner. If any of you hear anything, let me know!

Have any of you had a problem with port conflicts with one or more pieces of hardware? I had a problem with my homemade printer interface and my Olinger disk system. If you have had a problem, call FREE NET and check out the bulletin I wrote about it. Till next month, TAKE CARE!!!

James G. DuPuy

Looking For A Few Good Sysops

Timelines BBS is looking for a few good Co-Sysops! I require at least 3 Co-Sysops to help in the Running of Timelines BBS.

I need one to Sysop the TS-1000 Files Section. One for the TS-2068, Spectrum Files Section and one for the Q.L. Files Section. These people will run their section and be responsible for what files are there and not there.

They also must take time to answer user questions of their sections users and to try to help others who have trouble being able to use Timelines Files Section.

What do they get in return? Two things, A big Headache and Unlimited Access so they get the job done.

If interested say so at the Club Meeting or leave a Comment for Sysop on Timelines BBS, Data No. 216-671-6922 from 10pm to 6am Nightly.

Timelines Sysop,
Robert Parish

IF YOU ARE GOING TO THE IND. COMPUTER FEST, PLEASE READ:

I am offering rides to Indianapolis. I have a large van and can take 12-15 people. This can save lots of gas money! I plan to leave when the majority of people want to leave. I will return soon after the convention ends. Call or write as soon as possible so I can confirm leaving time. Anyone living between Cleveland and Indy (somewhere close to 71 or 70) is welcome! It's 311 miles to Indy and will take about 5-6 hours. It should cost about \$5.00 round trip or less with more people plus you can sit back and enjoy the ride! I will pick everyone up at their home and drop them off.

It will be first come first serve, so Please call or write SOON! DOUG GILLESPIE 216-884-8835
5860 CALAMIE DR.
PARMA HTS., OH, 44130
There is plenty of room for luggage and computers.

If you would like to subscribe to the RAMTOP please fill out this form and send it to the listed address along with a check for: \$15/Year or \$7.50/ 6 mo. to become a member of our Group (Attend meetings, use library tapes Ect.) or: \$12/Year or \$6/ 6 months to receive the RAMTOP ONLY! Please make checks payable to the RAMTOP! (The phone # is only for our records!)

Please print! Enclosed: \$ _____ for 1 year ___ / 6 months ___

*
*NAME: _____ PHONE: _____ *

*
*STREET: _____ We need your phone #

*
*CITY: _____ STATE: _____ ZIP: _____

*
*
*Type of computer(s) and peripheral(s) you own: _____

*
*
*
* THANK YOU for your interest! Please send to:

*Robert Parish, 12706 Leeila Ave., Cleveland, OH 44135

UPSIDE DOWN AND SIDEWAYS TOO!!

Some time ago the RAMTOP published an article on printing upside down, using the POINT function. You can also use this same POINT to print text sideways. The book, "The Complete Spectrum," contains a program to rotate a letter 90 degrees at a time, as follows.

With a bit of effort you can build on this program to print words in all four rotations. The fly in the ointment is that the upside-down part is literally upside-down like a mirror image, and not really rotated twice. Still it is an interesting project. I killed two birds with one stone with the following program.

Max Schoenfeld

```
10 REM "fair S"
20 REM by Max Schoenfeld
30 LET y=16
40 FOR z=1 TO 5
50 READ a$
60 PRINT AT 0,0;a$
70 LET x=60: LET y=y+14
80 FOR b=0 TO 7: FOR a=0 TO 7
90 IF POINT (a,175-b)=0 THEN G
0 TO 110
100 PLOT x+b,y+a
110 NEXT a: NEXT b
120 PRINT AT 0,0;" "
130 DATA "N","O","R","T","H"
140 NEXT z
150 LET y=114
160 FOR z=1 TO 6
170 READ a$
180 PRINT AT 0,0;a$
190 LET x=140: LET y=y-10
```

```
210 FOR b=0 TO 7: FOR a=0 TO 7
220 IF POINT (a,175-b)=0 THEN G
0 TO 240
230 PLOT x-b,y-a
240 NEXT a: NEXT b
250 PRINT AT 0,0;" "
260 DATA "C","O","M","P","U","T"
,"E","R"
270 NEXT z
280 LET x=59
290 FOR z=1 TO 4
300 READ a$
310 PRINT AT 0,0;a$
320 LET x=x+15: LET y=16
330 FOR b=0 TO 7: FOR a=0 TO 7
340 IF POINT (a,175-b)=0 THEN G
0 TO 360
350 PLOT x+a,y+b
360 NEXT a: NEXT b
370 PRINT AT 0,0;" "
380 DATA "R","I","A","F"
390 NEXT z
400 LET x=61
410 FOR z=1 TO 5
420 READ a$
430 PRINT AT 0,0;a$
440 LET x=x+12: LET y=113
450 FOR b=0 TO 7: FOR a=0 TO 7
460 IF POINT (a,175-b)=0 THEN G
0 TO 480
470 PLOT x+a,y-b
480 NEXT a: NEXT b
490 DATA "C","O","A","S","T"
500 PRINT AT 0,0;" "
510 NEXT z
```

Continued from Qolumn

```
260 1$=x$(16 TO 17):n=1$
270 xm=118+65*(SIN(n/9.5)):ym=100+65*(COS(n/9.5))
▷ 280 INK 0:LINE 120,110 TO oxm,oym+10:INK 3:LINE 120,110 TO x
m,ym+10
290 ys=x$(13 TO 14):n=((ys-12)*5)+(1$/12)
300 xh=118+45*(SIN(n/9.5)):yh=100+45*(COS(n/9.5))
▷ 310 INK 0:LINE 120,110 TO oxh,oyh+10:INK 5:LINE 120,110 TO x
h,yh+10
▷ 320 INK 7:LINE 120,110 TO x,y+10
330 ox=x:oy=y:oxm=xm:oym=ym:oxh=xh:oyh=yh
▷ 335 IF bell>0:BEEP 10000,10:bell=bell-1
▷ 340 GO TO 210
```

THE FOLLOWING FORM IS FOR THOSE WHO ARE INTERESTED IN RECEIVING A LIBRARY TAPE. YOU MUST FILL THIS OUT AND RETURN IT IF YOU WANT A TAPE MAILED TO YOU! This form is for those of you that DON'T attend the meetings. There are 2 ways to get a copy of the programs in our library: 1- Send a C-90 with your return address and \$1.00 (P&H) or 2- We will send you a tape that you can keep for \$3.00. (Make checks payable to The RAMTOP)
Thank You for your support of our group!

* LIBRARY TAPE FORM *

* NAME _____ PHONE _____
* phone # is REQUIRED!

* ADDRESS _____

* CITY _____ STATE _____ ZIP _____

* TYPE OF COMPUTER YOU OWN: 1000/ZX-81 ____ /1500 ____ /2068 ____

* check all that you have : QL ____ OTHER _____

* Do you have a DISK system: (type) _____

* Please note that we request that the form be filled out as
* completely as possible.

Mail the form along with your check (\$1.00 or \$3.00) to:
Dean Miller (Librarian) + It would be appreciated if you
29324 Park St. + send us any noncopyrighted soft-
Wickliffe, OH, 44092 + ware!!! (Phone- 216-944-8630)

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From:
THE GREATER CLEVELAND SINCLAIR USERS GROUP
James G. DuPuy (Editor)
6514 Bradley Ave.(Down)
Parma, Ohio 44129

TO: